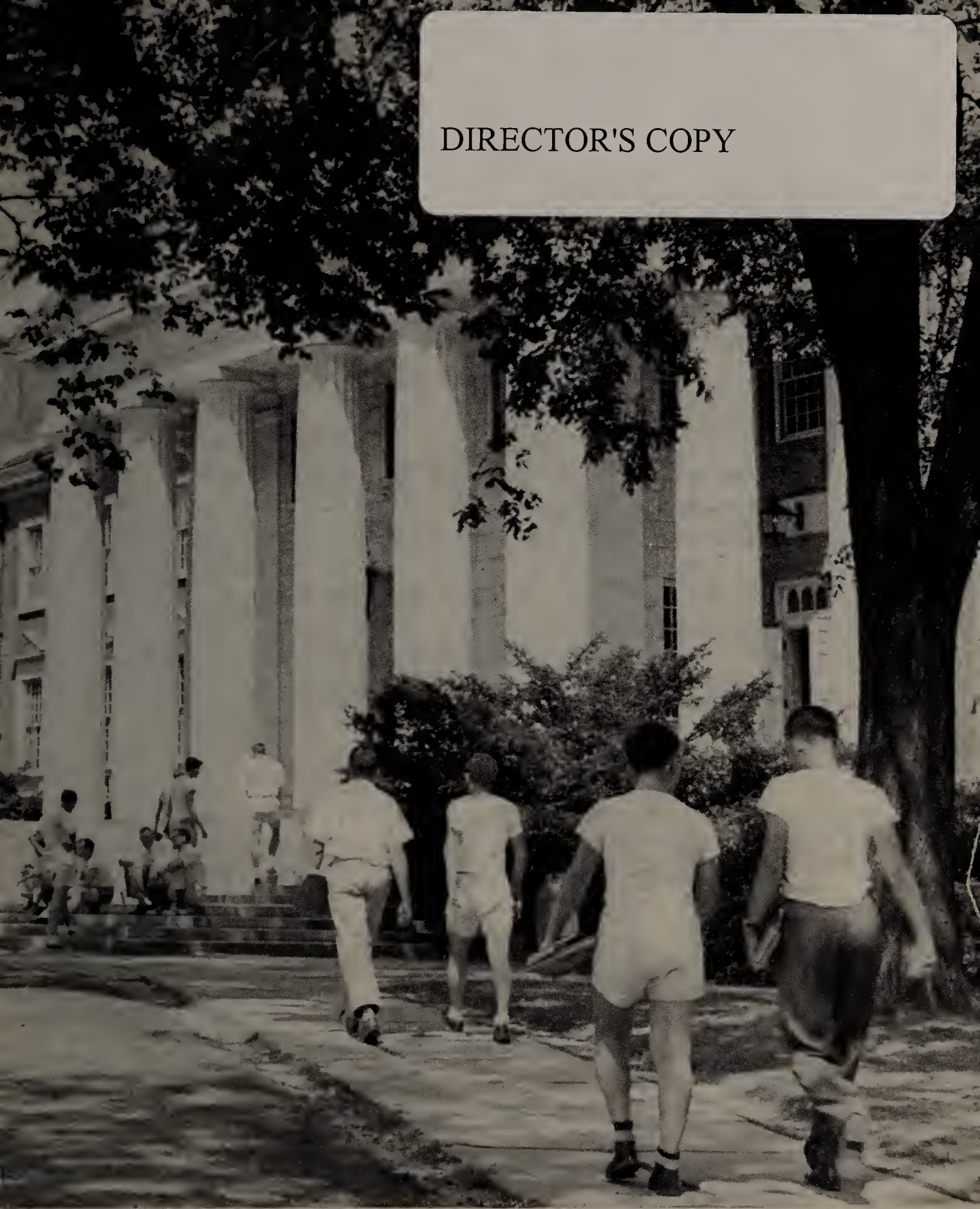


DIRECTOR'S COPY



The Andover Summer Session

Tues., June 29 — Wed., August 25, 1954

PHILLIPS ACADEMY, ANDOVER, MASSACHUSETTS



Phillips Academy

Phillips Academy in Andover, Massachusetts, is a college-preparatory, boarding school for boys. Now in its 176th year, Andover, as the Academy is often called, has an enrollment of over seven hundred students and a faculty of eighty-four. In the session, 1953-1954, its students came from forty states, the District of Columbia and nineteen foreign countries.

Phillips Academy is a liberal, modern school with a long tradition of national service and devotion to democratic ideals. It has always sought to develop in its students sound scholarship and manly character, with emphasis on resourcefulness, self-reliance, and independence.

Throughout the four years of its curriculum, Andover stresses thorough training in English, foreign languages, history, mathematics, and science. There are also other liberal arts courses. Large scholarship funds put the education which it offers within reach of any serious and able student in need of aid.

The town of Andover, in historic Essex County, is twenty-five miles north of Boston, from which it is easily reached by train, bus, or automobile.

The Andover Summer Session

The Summer Session is an integral part of Phillips Academy. It was instituted in 1942 primarily as a war-time measure to enable boys from Andover and other schools to finish their secondary school education before being

called to military service and to get training which prepared them more rapidly and thoroughly for national service, both in the war emergency and beyond.

The Summer Session now has other important functions. It offers many younger boys the stimulating experience of school life away from home, the opportunity of making friends with boys from diverse localities and backgrounds, and the challenge of rigorous preparatory school standards. It gives boys who are planning to enter Andover in the fall an opportunity to strengthen their academic preparation and to adjust themselves to Andover standards and life. It also assists students who are short of normal class standing to make up their deficiencies. *The Andover Summer Session is not a tutoring or cramming school.*

If the situation changes materially at any time, the Summer Session stands ready to modify and enlarge its program.

Up to the limit of its capacity, the Andover Summer Session welcomes **qualified boys from high schools and preparatory schools.**

The comprehensive curriculum of the Summer Session meets the varying needs of boys of different ages. Further, for all of its students the Session provides a well-rounded educational experience outside the classroom. All students attend daily assembly. In addition, they participate in a program of daily sports and interdormitory athletic competition.

THE SUMMER SESSION CURRICULUM

A brief description of the courses offered in the Summer Session is given on pages 14-19 of this catalogue. *No course will be given unless it has a sufficient enrollment.* The time-schedule of the recitations may, in some instances, restrict the free choice of courses. Applicants for admission are expected to make known the courses which they wish to take, and will be informed of any conflicts of hours as soon

as the schedule is fixed. If there is sufficient demand, courses not offered in the catalogue may be arranged.

Summer Session courses are of three main types as described below: major courses; minor courses doing advanced work; minor review courses. In general, it is expected that boys who attend for the summer only will take new and advanced work rather than review courses designed to make up previous failures.

Major Courses

Major courses meet **two periods** a day, six days a week.

A major course is substantially the equivalent of a similar full course taken during the regular academic year at Phillips Academy. An Andover student who completes a major course in the Summer Session receives one unit of credit for it towards his diploma. Other secondary schools have been willing to give similar credit for such a course, but in each case individual arrangements must be made by the student with the school in question.

Minor Courses

Minor courses meet **one period** a day, six days a week.

One type of minor course does advanced work and carries one-half unit of credit. In this category are courses in mathematics and sciences.

The other type of minor is the review course which provides opportunity to make up work failed during the regular school year or to strengthen foundations in basic subjects. Such courses are particularly helpful to a boy, who, planning to enter Phillips Academy in the fall, needs further grounding in the materials he will study the following year. Successful completion of a review course secures credit for that course at Phillips Academy without further examination.

A NEW COURSE

WORLD GEOGRAPHY—ECONOMIC AND POLITICAL

In response to the growing demand for advanced secondary school work in this field, Phillips Academy is offering a course in Economic and Political Geography as part of the 1954 Summer Session curriculum.

It is our belief that geographic facts should be related to the history of our society and to the economic order of the modern world if they are to possess any real meaning for students. The course will, therefore, emphasize these relationships.

It is hoped that this course may help the student in making the difficult transition from school to college work. He will gather his material from reference works in the Oliver Wendell Holmes Library, from lectures, and from class discussions and will undertake a term problem of his own choice which he will develop himself under the guidance of his instructor.

It is the purpose of this course to supplement work done or in prospect in the fields of History, Economics, Politics, and Physical Geography, to train students effectively for work of college level, and to increase their knowledge of the world in which we live.

The course is open to students in the eleventh and twelfth grades and to other well-qualified students. For those students whose programs do not permit the inclusion of the full course, Economic Geography is offered as a six-hour minor course.

Further description of the course may be found on page 18.

MUSIC

This summer will be marked by an attempt to develop an active extra-curricular music program featuring an enlarged chorus and as many small instrumental groups as possible. Since the informal atmosphere of the Summer

Session is conducive to the enjoyment of these pursuits, boys are urged to bring their instruments, and vocalists to come prepared to share their talents. Arrangements can also be made for private instruction in piano and stringed instruments and coaching in band instruments.

General Information

RELIGIOUS SERVICES

A simple religious service is held on Sundays in the early evening. Students are required to attend either this service or a service in one of the town churches.

PHYSICAL FITNESS AND SPORTS

The Summer Session has a comprehensive health and athletic program. Four days a week, each student, unless excused by the school physician, takes part in the athletic program.

Organized programs in tennis, swimming and baseball are offered. The numerous Academy playing fields, baseball diamonds, and tennis courts provide excellent facilities. The new six-lane swimming pool and separate diving pool is used for the regular swimming program. On rainy days competition is generated with organized dormitory basketball and volleyball leagues. On these occasions the new gymnasium with its four regulation basketball courts is put to good use. Also available for general use on rainy days are the pool, squash courts, badminton courts, wrestling room, and all the other facilities in the gym.

Frequently dormitory competitions in swimming, track, baseball, golf and tennis take the place of the regular daily athletic program. Sustained interest in dormitory competition over the entire summer does a good deal toward maintaining lively interest and giving the boys a chance to get to know each other intimately.

At the opening of the session a swimming test is given to each boy, and those who cannot swim are required to take lessons. Swimming instruction is also given to others who wish it. Emphasis is put upon a water-safety program.

Outdoor swimming is available in the Bobby Thompson Pond, an attractive small lake in the Moncrieff Cochran Sanctuary, ninety acres of woodland adjoining the Academy campus. In hours permitted for student swimming, a lifeguard is in attendance.

HEALTH SUPERVISION AND MEDICAL CARE

In addition to directing the physical fitness program described above, the Academy Department of Health supervises the Summer Session diet, the health of food handlers, the condition of the swimming pool and pond, and other aspects of community hygiene.

A separate building serves as the Infirmary throughout the Summer Session with a trained nurse in residence and a physician available. In an emergency, hospitals and specialists of the city of Boston can be reached within an hour. There is no charge for care at the Infirmary in the event of minor injuries or illnesses of short duration. Extra charges are made if the services of private nurses or consultants prove necessary, or in the event of injuries or illnesses involving a physician's attention and more than three days' stay at the Infirmary. After the third day at the Infirmary a charge of \$3.00 a day is made.

In order to assist parents in budgeting such expense for extra medical care, blanket accident and health insurance is provided at no extra cost to Summer Session boarding students. This insurance covers the cost of doctors' bills and hospital care up to \$250.00 for any one sickness or accident.

DISCIPLINE AND INDIVIDUAL RESPONSIBILITY

Attendance at the Andover Summer Session implies a serious purpose on the part of the student and a willingness

to assume a large measure of responsibility for maintaining order and for cooperating directly in the running of the Session. Rules are few and simple, and are based on the assumption that the student is able to discipline himself.

Dormitories have faculty supervision. The students themselves perform some of the everyday tasks connected with the operation of the school. They make their own beds, keep their rooms in order, serve themselves at meals, and take their turn at the regular work of the dining hall. Every student is required to meet all his appointments.

With the exception of the first and last weekends of the Session, students in good standing may go to their homes or visit friends' homes on weekends, leaving after their last appointment on Saturday and returning in time for evening study hours on Sunday. Similar privileges are allowed for Saturday and Sunday day trips to nearby places. But all out-of-town excuses may be withheld if a student's record is unsatisfactory or if, in the judgment of the faculty, his work would suffer through his absence.

Any student who shows himself unwilling to conform to the spirit of the Session, who neglects his work, or who is believed to exercise an injurious influence upon others may be dismissed at any time.

The possession, the renting, or driving of any motor vehicle in the town of Andover is forbidden.

FACULTY AND EQUIPMENT

The Trustees and Headmaster of Phillips Academy have full authority over the Summer Session. Immediate control is in the hands of the Summer Session faculty and the Director. The faculty of about twenty-five men is drawn largely from the regular Academy teaching staff. All the buildings, equipment, and facilities of the Academy are available for the Summer Session. Classes are held in the regular classroom buildings and students eat in the Commons and live in brick dormitories. The Oliver Wendell

Holmes Library, containing over seventy thousand volumes, the Addison Gallery of American Art, and the museum of the Peabody Foundation for Archaeology are open throughout the summer.

THE DAILY SCHEDULE

| | |
|-------------|---------------------------------------|
| 7:15 | Breakfast |
| 8:15-9:10 | Class or study hour |
| 9:15 | Assembly |
| 9:35-10:30 | Class or study hour |
| 10:35-11:30 | Class or study hour |
| 11:35-12:30 | Class or study hour |
| 12:30 | Lunch |
| 1:30-2:25 | Class or study hour |
| 3:00-5:00 | Sports |
| 6:00 | Dinner |
| 8:00 | Evening study period begins |
| 9:30 | Lights out for the younger boys |
| 10:30 | Lights out for the rest of the school |

On Wednesday and Saturday afternoons, there will be no required sports.

THE YOUNGER BOYS

Special provision is made for a limited number of younger boys who plan to enter the Junior, or first-year, class of Phillips Academy in September and who wish to gain experience for the regular Andover program. Unless ready for more advanced work, they study three subjects: Arithmetic, English, and either French or Latin. These courses are not accepted as college entrance units, but serve to strengthen a boy's foundation work and make the adjustment to the Fall Term in Phillips Academy easier and more satisfactory.

EXPENSES

The charge for a boarding student at the Summer Session is \$450, which covers tuition, room, and board.





Each student is required to make a deposit of \$25 when his application is accepted. The balance of the charge is due in two installments: \$250 by July 1 and \$175 by August 1.

The charge for day students is \$175, which covers tuition and lunches, but no other meals. Day students are required to make a deposit of \$25 when admitted and to pay the balance by July 1.

All checks should be made payable to the Trustees of Phillips Academy. Preliminary deposits should be mailed to the Director of the Summer Session. July and August tuition checks should be mailed, upon receipt of bills, **directly to the treasurer of Phillips Academy.**

Dormitory rooms are equipped with furniture, bed linen, and blankets. Students must furnish their own desk lamps and, in addition to clothes, towels, and personal effects, such individual athletic equipment as they may wish. Expenses beyond the \$450 charge should be light. They will include small sums for personal laundry, books, incidentals, and spending money. Many of the books needed can be rented from the Academy Loan Library. All students are expected to live simply, and expenditures beyond the Summer Session charges and transportation need not exceed \$25.

SCHOLARSHIPS

Ten full scholarships of \$450 each and a number of additional partial scholarships will be awarded to boys of unusual promise not previously enrolled in Phillips Academy whose chief purpose in coming to the Summer Session is to advance their education and increase their capacity to assume greater responsibilities. Scholarship boys will be expected to take some small job necessary to the smooth functioning of the Session, but such work will not interfere with full participation in the life of the school.

Awards will be based mainly on three factors: intel-

lectual ability, character, and financial need. Also considered is achievement in some worth-while activity outside the classroom; i.e., responsible participation in community affairs, student government, or other extra-curricular activity, or developed special interests of an intellectual or artistic nature.

Scholarship applications should be made on special blanks which will be furnished on request. These, together with the materials which they call for, must be returned to the Director by May 15. Awards will be made by May 25. Although funds for scholarship aid are limited, it is hoped that no outstanding student of serious purpose will be prevented for financial reasons from enrolling.

ADMISSION

Because of the purpose and nature of the Summer Session, entrance examinations are not required of regular Summer Session students. All students, however, must present acceptable evidence of serious purpose, good character, and ability to meet the scholastic standards of Phillips Academy. Whenever possible, a personal interview should be arranged. **Since the capacity of the Summer Session is definitely limited, early application is highly desirable.**

An applicant for admission should fill out completely the form in the back of this catalogue and send it, together with all materials which it requests, to the Director. The Summer Session will then send to the principal of the school which the applicant last attended a request for official records of his work and a certificate attesting his good character.

If a student wishes to obtain academic credit at his school for work done in the Summer Session, he should secure the approval of his principal in advance.

Courses Offered

THE NORMAL PROGRAM: *Each boy must take at least twelve hours of class-room work, but may not carry more than eighteen hours.*

The symbol **R** after a course title indicates a review course. All other courses, whether major or minor, do new or advanced work.

Major courses ordinarily meet 12 hours a week and minor courses 6 hours a week.

MATHEMATICS

Mathematics 4

12 Hours

The regular fourth-year course in elementary mathematics. Prerequisite is the satisfactory completion of three years' work in secondary mathematics: namely, elementary and intermediate algebra and plane geometry. For the Summer Session the course comprises any **two** of the following three parts.

Any one part may be taken as a separate minor course.

Mathematics 4 T

6 Hours

Plane trigonometry and logarithms.

Mathematics 4 S

6 Hours

Solid geometry. Spatial relations, constructions, loci, and computations will be emphasized.

Mathematics 4 A

6 Hours

The study of the following topics in advanced algebra: imaginary and complex numbers including DeMoivre's Theorem, the theory and solution of higher degree equations, determinants, permutations, combinations, probability, scales of notation, undetermined coefficients, summation of series, inequalities and mathematical induction.

Mathematics 3 R **6 Hours**
A general review of plane geometry.

Mathematics 2 **12 Hours**
A course in elementary and intermediate algebra for which a thorough grounding in at least one year of algebra is prerequisite.

Mathematics 2 R **6 Hours**
A general review of elementary and intermediate algebra.

Mathematics 1 **12 Hours**
The beginning course in algebra covering the subject through the solution of simultaneous equations, one linear and the other quadratic.

Mathematics 1 R **6 Hours**
A general review of first-year algebra, designed to anticipate the second-year study in this field.

Arithmetic **6 Hours**
Basic preparation for the first year in mathematics in Phillips Academy, this course covers the fundamental processes with whole, fractional, decimal, and denominate numbers; percentage; simple interest relations and applications; square root; common tables of measures; mensuration of areas and volumes; elementary graphing of statistical material; and mental drill.

Physics **SCIENCES** **12 Hours**

This course consists of two parts, given concurrently. Each part includes laboratory work. Successful completion of both halves of the course will secure credit for a year's work in Physics.

By means of lectures, recitations, experimental demonstrations, and the solution of numerical problems, the student is taught not only the fundamental principles of Physics, but also the elements of scientific method. Reference is made where possible to the implications and effect on current thought of recent advances. In the laboratory, experiments are performed for training in

manipulative techniques and to illuminate the methods of attack used in scientific investigation. The use of the slide rule is taught and required.

Either part may be taken as a separate minor course, although not in combination with a major course.

Physics A

6 Hours

Mechanics and Heat.

Physics B

6 Hours

Magnetism, Electricity, Light, and Sound.

Chemistry

12 Hours

The course in Chemistry includes the study of the various kinds of matter, the changes they undergo, and the laws that deal with these changes. The preparation, properties, and uses of the important elements and compounds are studied. The structure of the atom is discussed and the periodic classification of the elements interpreted in terms of electron configuration. Special attention is given to the understanding of principles and their application rather than to memorizing subject matter.

The course includes classroom demonstrations, individual laboratory work by the student, the use of various visual aids, and student participation in classroom activities.

Biology

12 Hours

The course in Biology covers the fundamental characteristics of living things; the nutrition, growth, and reproduction of plants and animals; the physiology and hygiene of the human body; the influence of bacteria and other plants, insects and other animals on man's welfare; and the principles of heredity and evolution. The work in the laboratory includes careful training in the use of the compound microscope and in the recording of observations made.

ART

Old and New Art

6 Hours

This course is called ART because its primary purpose is to open the eyes of the intelligently curious student to the wonders of the world he fails too often to see. Its fundamental approach is through the visual arts, i.e., architecture, sculpture, painting; but it seeks to illuminate these by correlation with literature and music. Wherever possible, familiar literature is drawn on for

parallels and considerable use of a rich library of phonograph records is made. An appreciable amount of time and effort is given to the art of today, especially in its functional aspects as found at hand in buildings, furniture, motor cars, aircraft, household appliances and gadgets of all kinds; but a basic understanding of the growth of the Western Arts from their birth in Egypt through the 19th century is also sought. The collection of pictures, sculpture and slides in the Addison Gallery and the books on art in the Oliver Wendell Holmes Library are the basic materials of the course which is open to all eleventh and twelfth grade students. A well equipped studio is available for voluntary, informal work.

This course may be credited as equivalent to the regular course in Art and Music.

FOREIGN LANGUAGES

Major Courses

12 Hours

The following courses are offered: **French 1; French 2; German 1; Latin 2; and Spanish 1.** These are designed to cover as nearly as possible the equivalent of the regular year's work in the respective courses. They are open a) to students of superior ability who wish to take more language courses than would be possible in the schedule of the regular year; and b) to those who require an additional year of language to fulfil diploma requirements.

Minor Courses

6 Hours

Review courses are offered in **French 1R, German 1R, Latin 1R, and Spanish 1R; French 2R, German 2R, Latin 2R, and Spanish 2R.**

These are designed primarily for students who, because of deficiency in the regular year, must make up the work in a particular language; and for students who wish to ensure a better foundation for further study.

The courses in French are conducted **exclusively** in the foreign tongue, following the methods in effect during the regular session. They aim to develop the four skills of reading comprehension, aural comprehension, speaking ability and writing ability.

Pre-Junior Latin, Pre-Junior French

Pre-Junior Latin aims (1) to cover certain essentials of beginning Latin which will enable the student to read simple Latin stories, and (2) to teach him in detail how to study a foreign

language. Students thus equipped with a knowledge of the elements of Latin and with efficient study habits should be able to handle their regular first year Latin course with assurance and success.

Pre-Junior French is conducted exclusively in French with emphasis on oral expression and aural comprehension. It is the purpose of this course to lay a firm foundation for continued study of the language during the regular session.

Each of the Pre-Junior Language courses covers approximately one-third of the work done in the regular year.

| | | |
|--------------------|----------------|----------------|
| English 4 A | ENGLISH | 6 Hours |
|--------------------|----------------|----------------|

This course gives training in reading and writing at the level of English 4, with emphasis upon the analysis and exposition of ideas. The readings are mainly in the essay, the drama, and the novel. The composition work stresses the fundamentals of rhetoric, including organization of materials, paragraphing, and sentence structure.

| | | |
|------------------|--|-----------------|
| English 3 | | 12 Hours |
|------------------|--|-----------------|

This course gives training in composition, with emphasis upon exposition, and upon the understanding and appreciation of various types of literature. It is a major course, the successful completion of which secures admission to English 4.

The other English courses are all review courses for students who wish to make up deficiencies in English or to strengthen their foundation in the subject. Each, at the appropriate level of difficulty, gives training in the basic skills of reading, writing, and speech, and in the understanding and appreciation of various types of literature.

The following review courses, all of 6 hours, are offered: **Pre-Junior English; English 1 R; English 2 R; and English 3 R.**

World Geography—Economic and Political 12 Hours

Open to boys in the eleventh or twelfth grades and to other qualified students. The course will consist of reading assignments, lectures, class discussions and map exercises. The students will cover the outstanding physical features and will be expected to assess their importance in the development of the United States, the British Commonwealth, Russia and other political entities or economic areas. Although the United States and its position in

the modern world will be stressed, the significance of other entities will not be minimized. No text book will be used. The student must, therefore, learn to take adequate notes on his outside reading, the class lectures and class discussions. There will be weekly assignments and tests. During the session, each student will be required to select a pertinent project and develop it himself in the form of an essay, a map, or a combination of both.

Economic Geography

6 Hours

To be given concurrently with World Geography.

The Art of Communication

¹²
~~18~~ **Hours**

Open to boys in the eleventh and twelfth grades, this course is concerned with efficiency of expression both oral and written. As such, it supplements but does not replace the study of language in regular English and foreign language courses.

The effectiveness of a student in history, economics, the sciences, foreign languages, and literature depends upon his ability to understand and evaluate what he reads and to communicate his knowledge and thoughts within these fields. This ability is quite apart from his appreciation of literature. Therefore, some of the elements of language examined in this course are the problems of definition (assigning to key terms exact meanings), multiple meanings of words and the effect of context on meaning, abstractions and symbols, the difference between statements of fact and of opinion and that between language used to convey information and language whose chief function is to express and arouse feeling. All this calls for close **reading** and carefully corrected **writing** in as many fields of study as possible, together with the **oral expression** of these same ideas.

Materials will be drawn from many sources such as newspapers, magazines, political speeches and writing, and advertising as well as from social studies and literature.

~~Approximately twelve hours a week will be devoted to written work and six hours to oral.~~

DIRECTED READING

In the Summer Session, all boys, whether members of English classes or not, are given the chance to read good books under the guidance of a teacher of English, a teacher of History, and of the School Librarians. This directed reading will bring great profit and pleasure to any boy who will avail himself of the opportunity.

The 1953 Summer Session Faculty

| | |
|---|-----------------------------|
| John Mason Kemper, A.M., L.H.D. | <i>Headmaster</i> |
| Henry Waring Schereschewsky, A.B. | <i>Comptroller</i> |
| Richard Sawyer Pieters, A.M. | <i>Director</i> |
| Cornelius Gordon S. Banta, S.B. | <i>Mathematics</i> |
| John Sedgwick Barss, A.M. | <i>Physics</i> |
| Rudolph Bringmann, Ph.D. (<i>Hamm, Germany</i>) | <i>German</i> |
| William John Buehner, A.B. | <i>Latin</i> |
| C. Alexander Campbell (<i>The Mary Institute</i>) | <i>English</i> |
| Donald Dunbar, A.M. (<i>Westminster</i>) | <i>Mathematics</i> |
| Douglas Mansor Dunbar, A.B. | <i>Mathematics</i> |
| Edward W. Flint (<i>Brooks School</i>) | <i>Mathematics</i> |
| Wilfred Freeman (<i>Northfield School</i>) | <i>Art</i> |
| Alexander Dunnett Gibson, A.M. | <i>French</i> |
| Allan George Gillingham, Ph.D. | <i>Latin</i> |
| William Franklin Graham, S.B. | <i>Mathematics</i> |
| Fred H. Harrison, A.M. | <i>Athletics</i> |
| Bert Kelsey (<i>Roxbury Latin School</i>) | <i>English</i> |
| Hart Day Leavitt, A.B. | <i>English</i> |
| Francis Bertrand McCarthy, A.B. | <i>English</i> |
| John Claiborne McClement, Ed.M. | <i>Mathematics</i> |
| George Markow (<i>Harvard</i>) | <i>French</i> |
| Donald Emery Merriam, A.M. | <i>Spanish</i> |
| Arnold E. Messner (<i>Darrow School</i>) | <i>Spanish and French</i> |
| Lester St. John (<i>Lake Forest High</i>) | <i>Chemistry</i> |
| Winfield Michael Sides, S.B. | <i>Mathematics</i> |
| Stephen Stanley Sorota, S.B. | <i>Athletics</i> |
| Chychele Waterston, M.A. (<i>Brooks School</i>) | <i>Art of Communication</i> |